#7

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FIG. 1

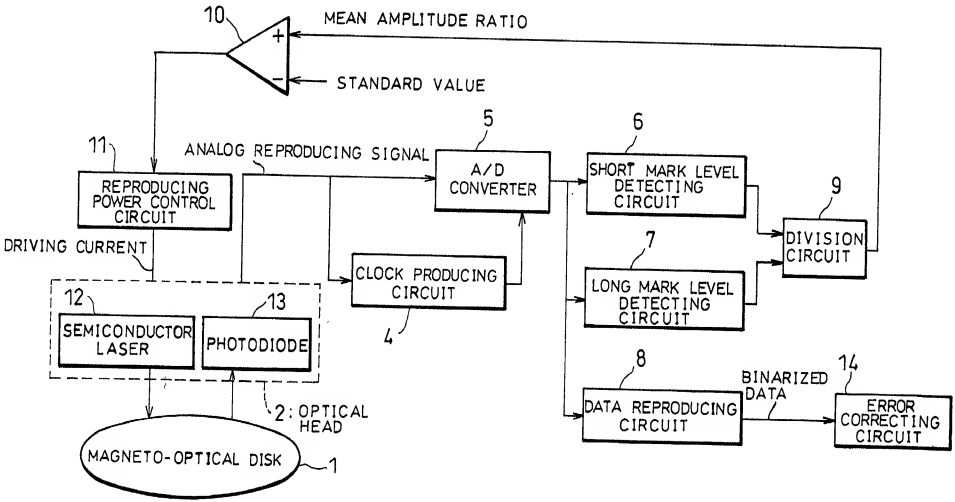

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FIG. 2

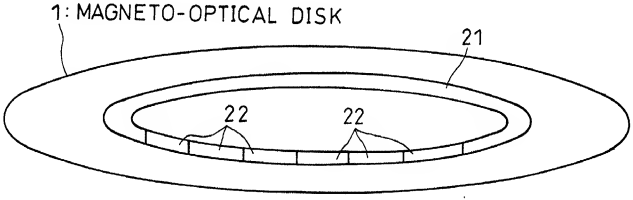

FIG. 3

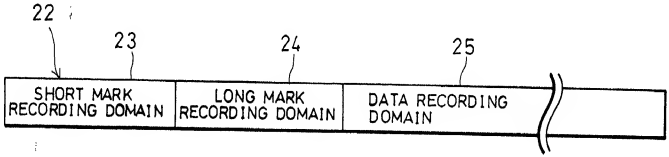

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FIG. 4

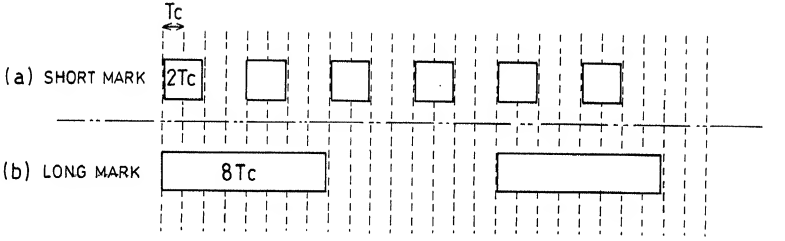


FIG. 5

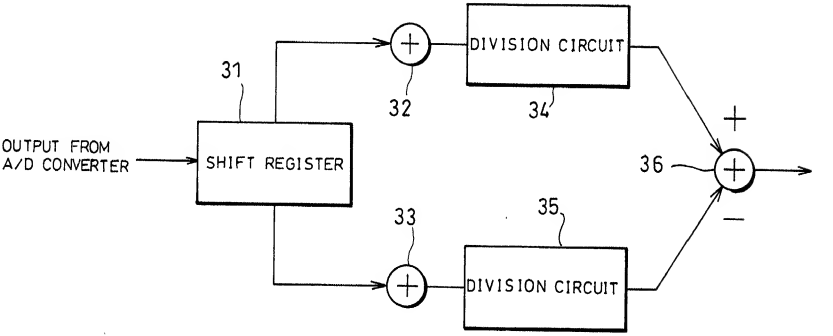
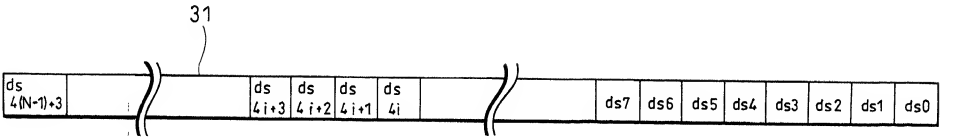

OUTPUT FROM
A/D CONVERTER
SHIFT REGISTER
31
32
33
34
35
36
DIVISION CIRCUIT
DIVISION CIRCUIT
+
−

FIG. 6


31
ds 4(N-1)+3
ds 4i+3
ds 4i+2
ds 4i+1
ds 4i
ds7
ds6
ds5
ds4
ds3
ds2
ds1
ds0

2022-10-16 06:06:60

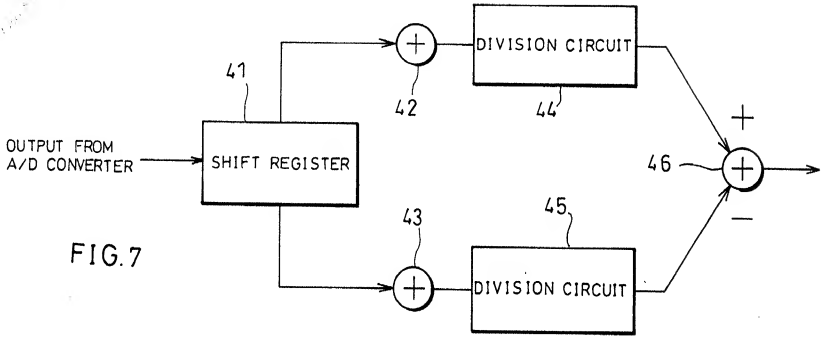


FIG. 7

FIG. 8

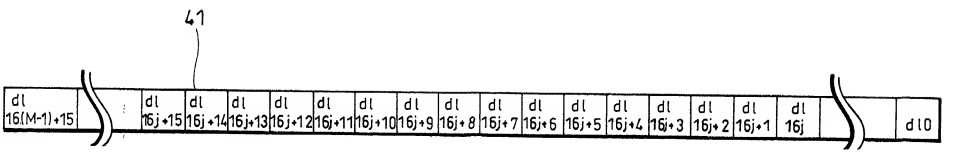


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FIG. 9

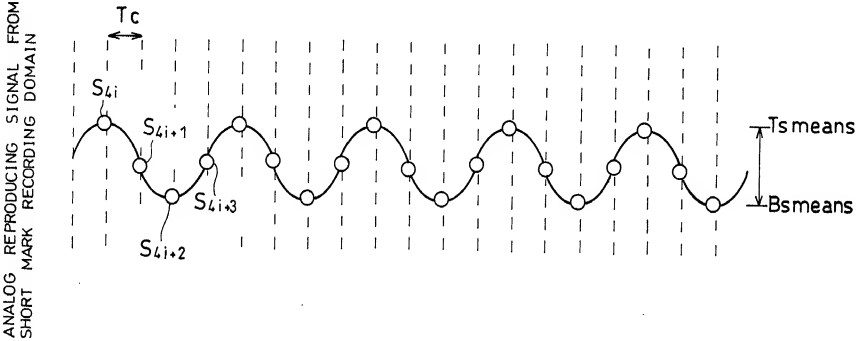

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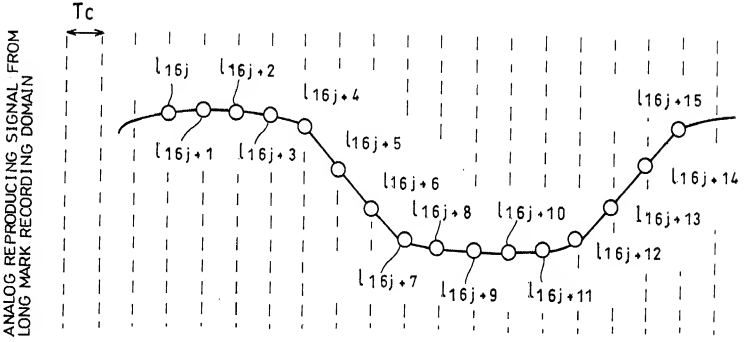
FIG.10



JP 62-260060

FIG. 11

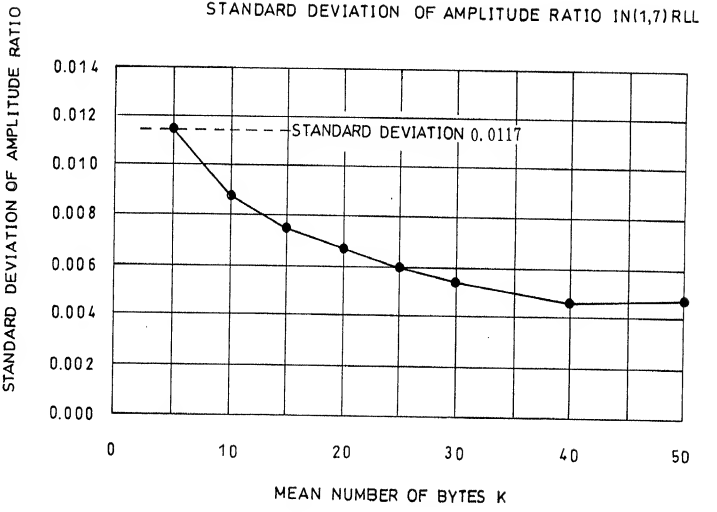


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FIG.12

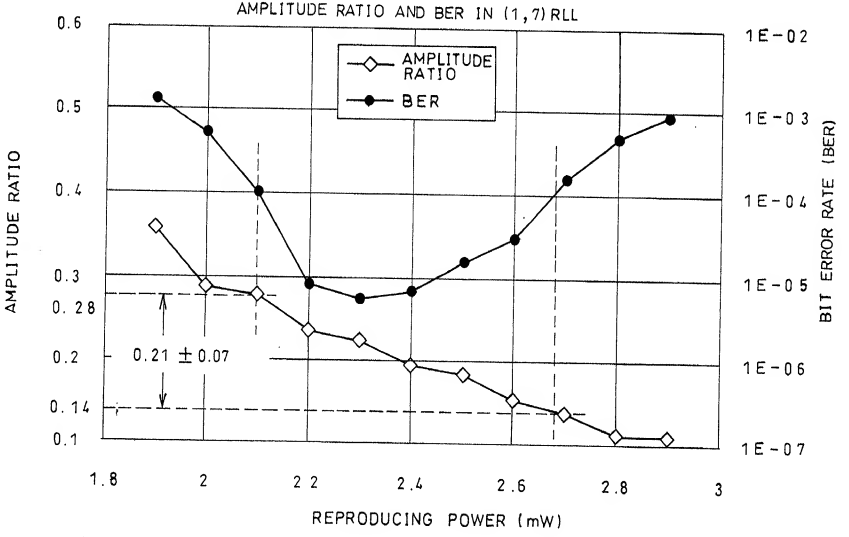

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FIG.13

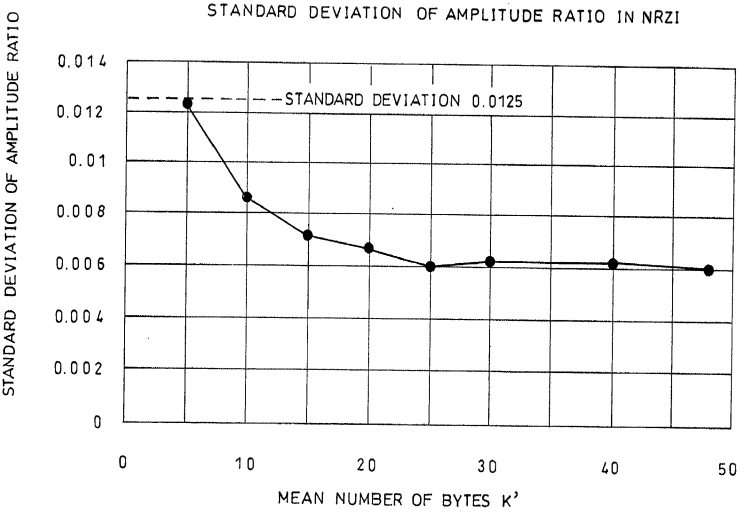

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FIG.14

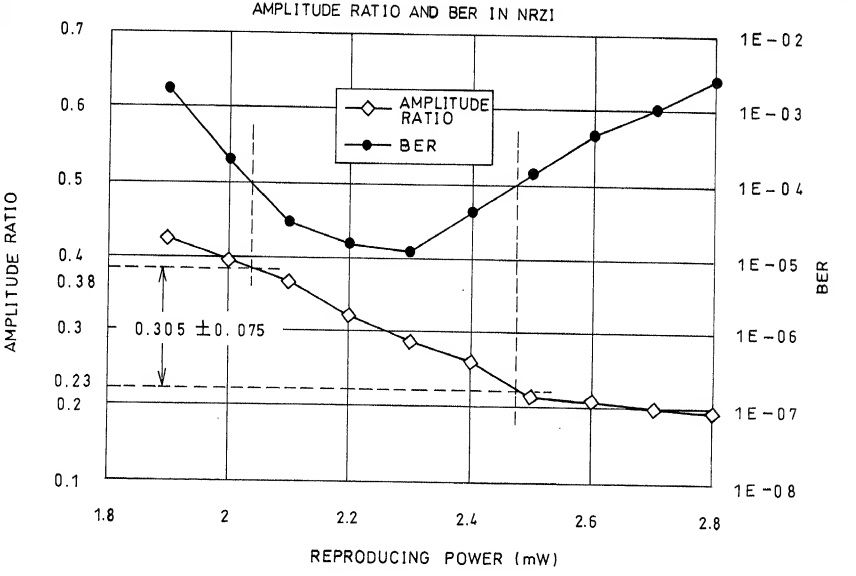

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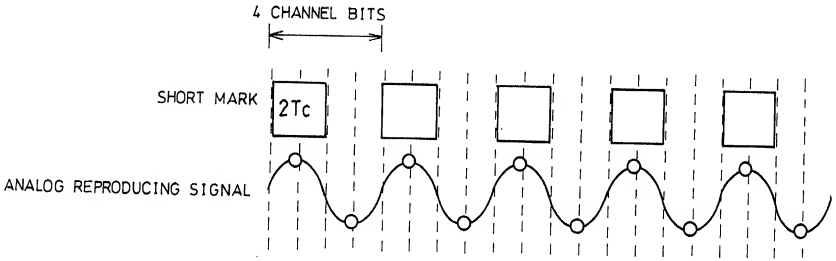
FIG.15



2022TO'T62B0660

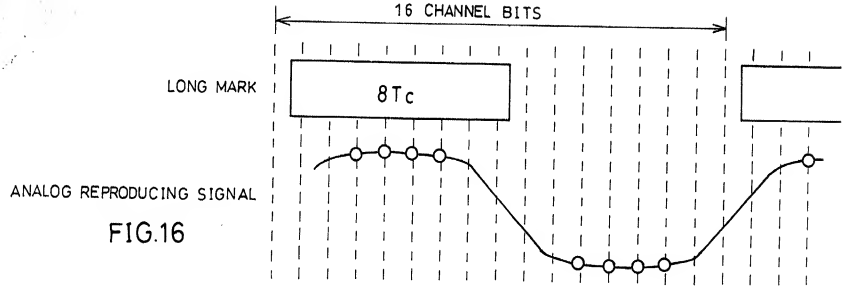


FIG.16

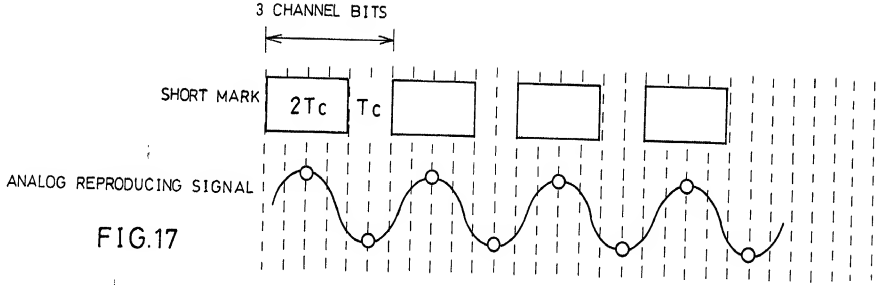


FIG.17

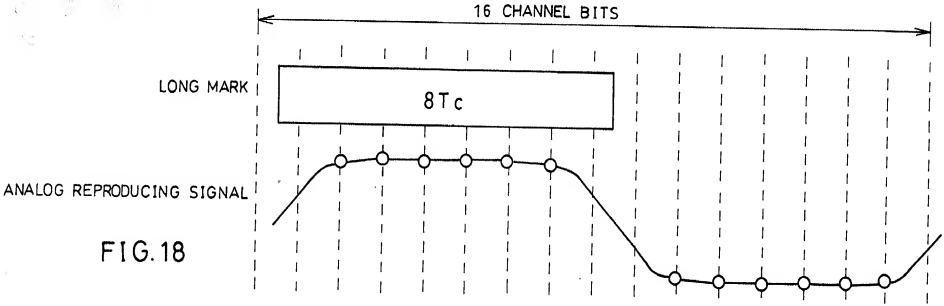

16 CHANNEL BITS
LONG MARK
8Tc
ANALOG REPRODUCING SIGNAL

FIG. 18

FIG. 21

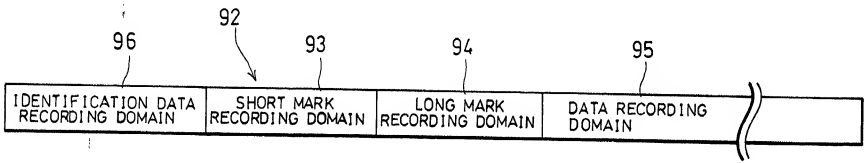
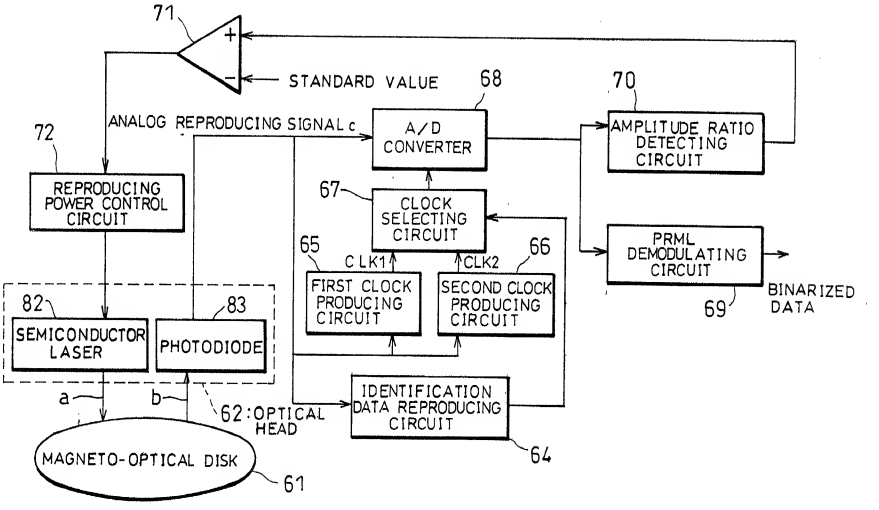

96
92
93
94
95
IDENTIFICATION DATA RECORDING DOMAIN
SHORT MARK RECORDING DOMAIN
LONG MARK RECORDING DOMAIN
DATA RECORDING DOMAIN

FIG. 19


71
+
-
STANDARD VALUE
68
70
72
ANALOG REPRODUCING SIGNAL c
A/D CONVERTER
AMPLITUDE RATIO DETECTING CIRCUIT
REPRODUCING POWER CONTROL CIRCUIT
67
CLOCK SELECTING CIRCUIT
65
66
CLK1
CLK2
PRML DEMODULATING CIRCUIT
FIRST CLOCK PRODUCING CIRCUIT
SECOND CLOCK PRODUCING CIRCUIT
69
BINARIZED DATA
82
83
SEMICONDUCTOR LASER
PHOTODIODE
a
b
62: OPTICAL HEAD
IDENTIFICATION DATA REPRODUCING CIRCUIT
MAGNETO-OPTICAL DISK
61
64

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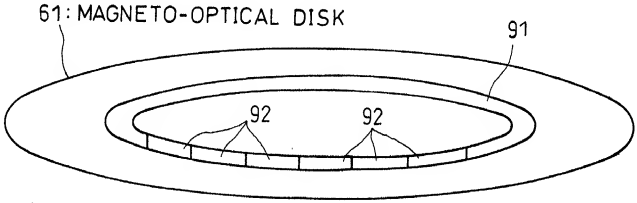

FIG. 20

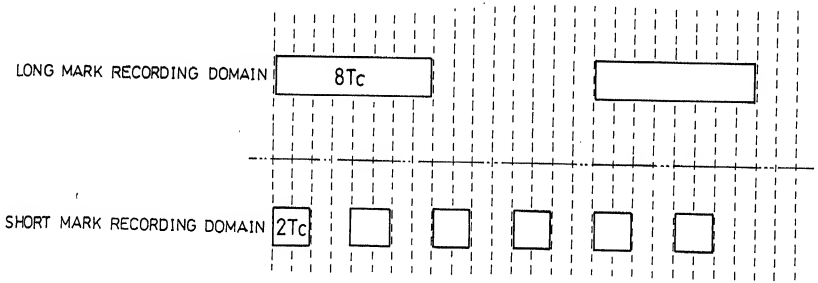

FIG.22

FIG. 23

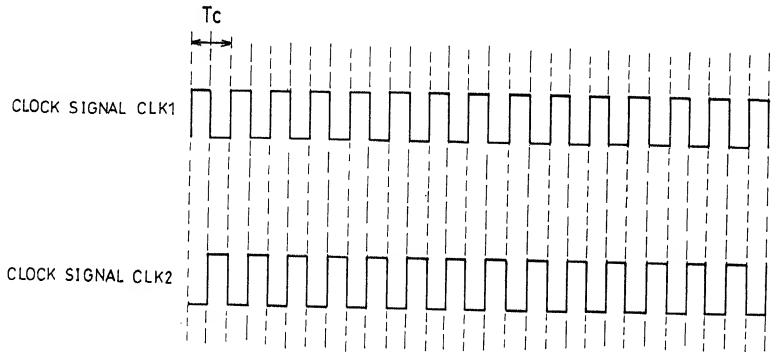

FIG. 24

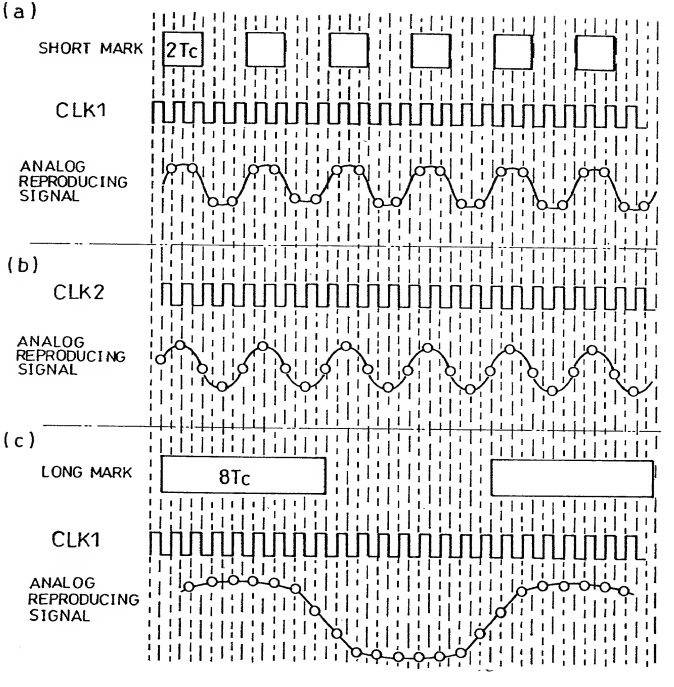
(a)
SHORT MARK
2Tc
CLK1
ANALOG REPRODUCING SIGNAL
(b)
CLK2
ANALOG REPRODUCING SIGNAL
(c)
LONG MARK
8Tc
CLK1
ANALOG REPRODUCING SIGNAL

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FIG.25

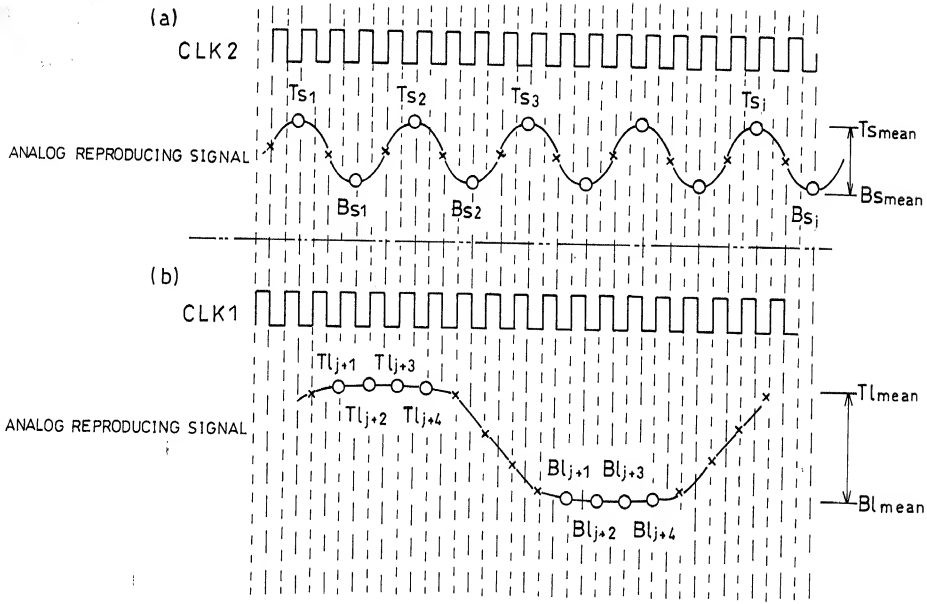

FIG. 26

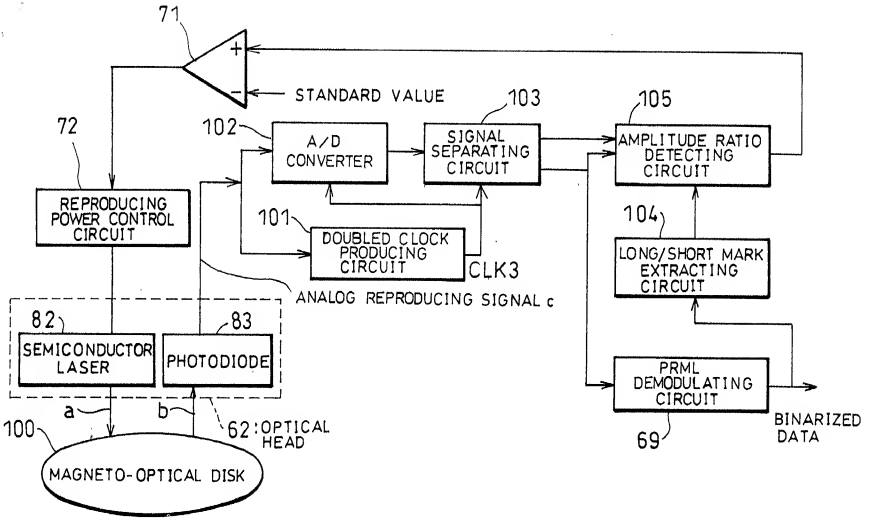
71
+
-
STANDARD VALUE
72
102
A/D CONVERTER
103
SIGNAL SEPARATING CIRCUIT
105
AMPLITUDE RATIO DETECTING CIRCUIT
REPRODUCING POWER CONTROL CIRCUIT
101
DOUBLED CLOCK PRODUCING CIRCUIT
CLK3
104
LONG/SHORT MARK EXTRACTING CIRCUIT
ANALOG REPRODUCING SIGNAL c
82
83
SEMICONDUCTOR LASER
PHOTODIODE
PRML DEMODULATING CIRCUIT
a
b
100
62:OPTICAL HEAD
MAGNETO-OPTICAL DISK
69
BINARIZED DATA

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FIG. 27

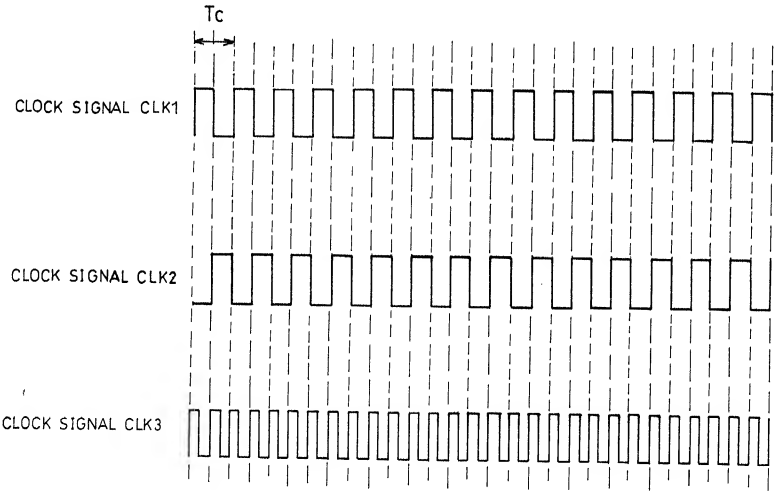

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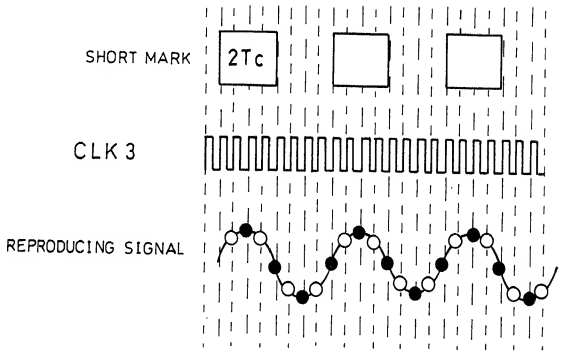
FIG.28



○ : PRML DETECTION SAMPLING POINT

● : PEAK DETECTION SAMPLING MARK FOR 2Tc MARK

FIG. 29

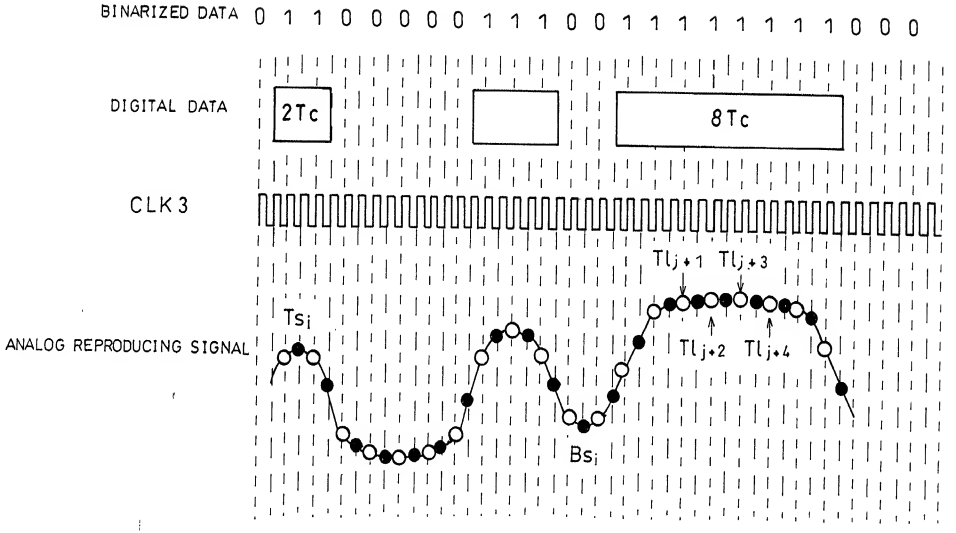
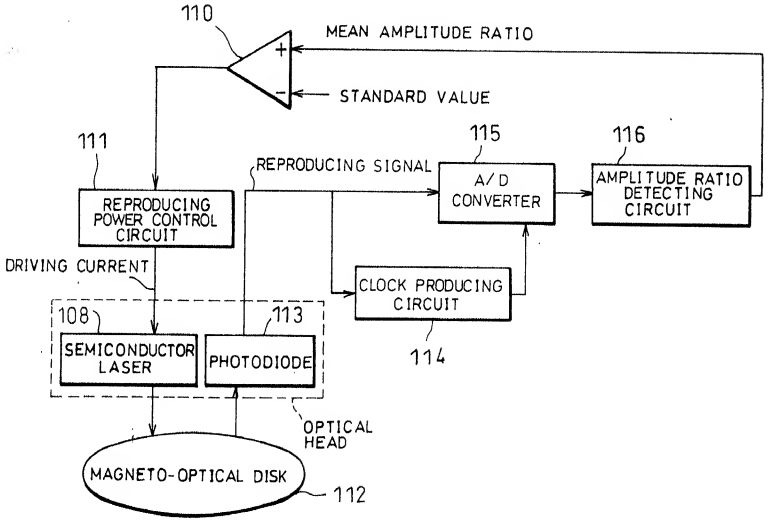

BINARIZED DATA
0 1 1 0 0 0 0 0 1 1 1 0 0 1 1 1 1 1 1 1 1 0 0 0
DIGITAL DATA
2Tc
8Tc
CLK3
ANALOG REPRODUCING SIGNAL
Tsi
Bsi
Tlj+1
Tlj+3
Tlj+2
Tlj+4

FIG. 30


110
MEAN AMPLITUDE RATIO
+
-
STANDARD VALUE
111
115
116
REPRODUCING SIGNAL
A/D CONVERTER
AMPLITUDE RATIO DETECTING CIRCUIT
REPRODUCING POWER CONTROL CIRCUIT
DRIVING CURRENT
CLOCK PRODUCING CIRCUIT
114
108
113
SEMICONDUCTOR LASER
PHOTODIODE
OPTICAL HEAD
MAGNETO-OPTICAL DISK
112

2022TO"T6260660

FIG. 31

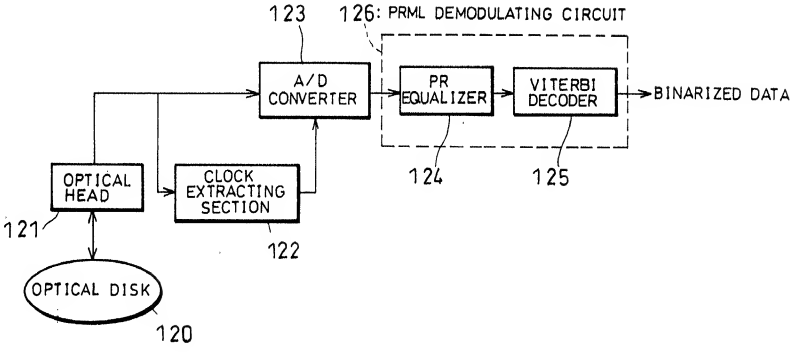


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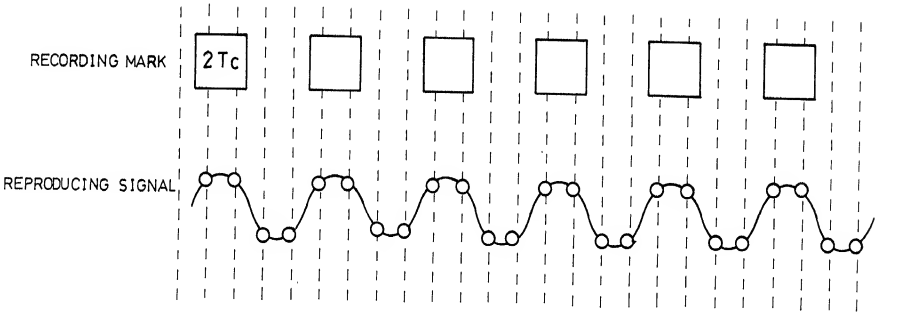
FIG. 32



○ : SAMPLING POINT IN PR(1,2,1)ML DETECTION

FIG. 33

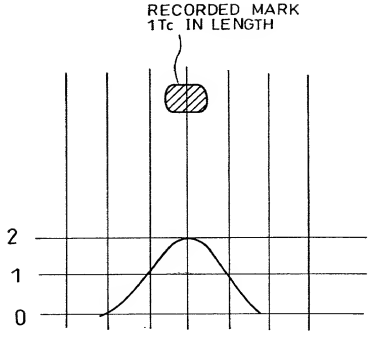
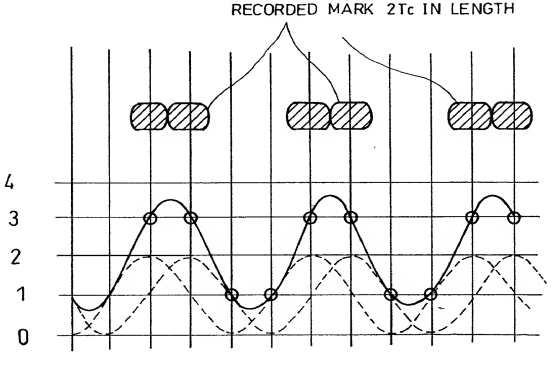

RECORDED MARK
1Tc IN LENGTH
2
1
0

FIG. 34


RECORDED MARK 2Tc IN LENGTH
4
3
2
1
0